



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
13.12.2017 Bulletin 2017/50

(51) Int Cl.:
F23D 14/06 (2006.01) F24C 3/08 (2006.01)

(43) Date of publication A2:
30.01.2013 Bulletin 2013/05

(21) Application number: **12175837.9**

(22) Date of filing: **11.07.2012**

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR
Designated Extension States:
BA ME

(71) Applicant: **Turas Gaz Armatürleri Sanayi. Ve Ticaret A.S.**
34590 Istanbul (TR)

(72) Inventors:
• **Turhan, Gokhan**
34590 Istanbul (TR)
• **Demirezen, Mehmet**
34590 Istanbul (TR)

(30) Priority: **28.07.2011 TR 201107431**

(54) **Gas burner with multiple flame rings**

(57) A multiple gas burner (1), which homogenously heats the cookers such as fryers and saucepans located on it and has a high power value (4 Kw-5 kW) and in which adequate amount of secondary air feeding is provided to the ports inside and where successive flame jump occurs from the inner circles to the outer circles, is explained. In the said burner (1) in order to provide a homogenous heating, there exist at least two little flame crowns (1.3) which are symmetric to the center of the big flame crown (1.2) and have equivalent powers. In order

to provide an adequate secondary air feeding, there exist at least two big flame crown upper ducts (1.2.6) and in order to provide successive flame jumps, there exist angular ports (1.2.3). The said at least two equivalent little flame crowns (1.3) are located in the space (1.2.7) in the center of the big flame crown (1.2) and located symmetrically with respect to the center of the big flame crown (1.2) in order to heat the cookers such as fryers and saucepans located on the burner homogenously.

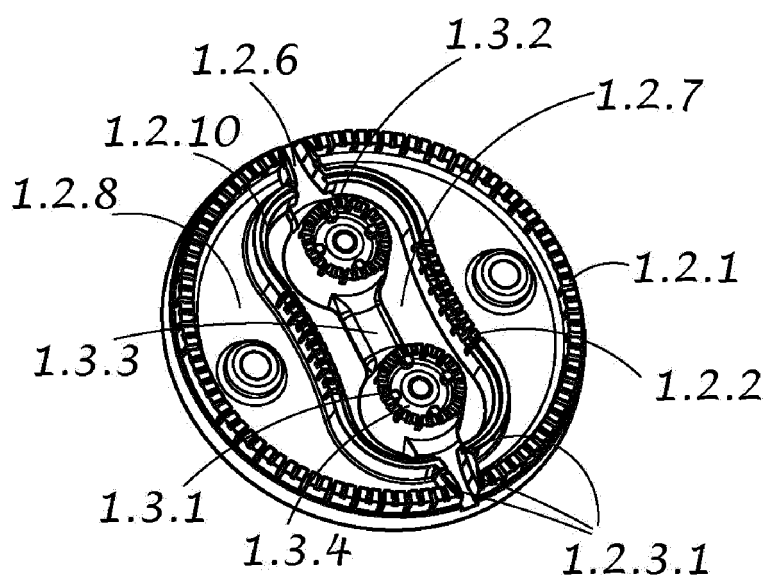


Figure 11



EUROPEAN SEARCH REPORT

Application Number
EP 12 17 5837

5

10

15

20

25

30

35

40

45

50

55

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 2005/142511 A1 (YAM SIU HUN P [US] ET AL) 30 June 2005 (2005-06-30) * paragraph [0025] - paragraph [0049]; figures 1-13 *	1-10	INV. F23D14/06 F24C3/08
X	US 2008/202495 A1 (CALOCA GALINDO VICTOR GERARDO [MX] ET AL) 28 August 2008 (2008-08-28) * paragraph [0049] - paragraph [0078]; figures 1-14a *	1-4,6,7,9,10	
Y	WO 2006/051368 A1 (INDESIT CO SPA [IT]; FALCIONI WALTER [IT]; LACCHE TIZIANO [IT]) 18 May 2006 (2006-05-18) * page 2, line 19 - page 6; figures 1-3 *	5,8	
Y	WO 2006/114063 A1 (ZHEJIANG SHUAIKANG ELECTRIC ST [CN]; ZOU GUOYING [CN]) 2 November 2006 (2006-11-02) * abstract; figures 1-6 *	1-10	
			TECHNICAL FIELDS SEARCHED (IPC)
			F24C
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 9 November 2017	Examiner Munteh, Louis
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 12 17 5837

5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

09-11-2017

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2005142511 A1	30-06-2005	NONE	
US 2008202495 A1	28-08-2008	BR PI0703890 A2 CA 2618038 A1 US 2008202495 A1	31-08-2010 23-08-2008 28-08-2008
WO 2006051368 A1	18-05-2006	EP 1809946 A1 RU 2007121661 A WO 2006051368 A1	25-07-2007 20-12-2008 18-05-2006
WO 2006114063 A1	02-11-2006	CN 2791482 Y WO 2006114063 A1	28-06-2006 02-11-2006